## **Table of Contents: Volume 23**

## Numbers 1/2

## Special Issue on Control-Theoretical Approaches to Real-Time Computing Guest Editors: Lui Sha and Tarak F. Abdelzaher

Guest Editorial Lui Sha and Tarek Abdelzaher	5
Adaptive Workload Management through Elastic Scheduling	7
Feedback-Feedforward Scheduling of Control Tasks	25
Scheduler Modeling Based on the Controller Synthesis Paradigm	55
Feedback Control Real-Time Scheduling: Framework, Modeling, and Algorithms Chenyang Lu, John A. Stankovic, Gang Tao and Sang H. Son	85
Using Control Theory to Achieve Service Level Objectives in Performance Management	127
Specification, Mapping and Control for QoS Adaptation	143
Number 3	
Real-Time Supervisory Control of a Processor for Non-preemptive Execution of Periodic Tasks Peter C. Y. Chen and W. M. Wonham	183
Analysis of Worst Case DMA Response Time in a Fixed-Priority Bus Arbitration Protocol	209
Robust Adaptive Metrics for Deadline Assignment in Distributed Hard Real- Time Systems	239

Utilization Based Schedulability Bounds for Age Constraint Process Sets in Real-Time Systems	273
A Computation Method for Providing Statistical Performance Guarantee to an ATM Switch Joseph Kee-Yin Ng, Shibin Song and Bihai Tang	297

